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ABSTRACT OF THE DISCLOSURE

A substrate has a bonding region and a sensing region.
A first dielectric layer is formed overlying the substrate
and has a dielectric island surrounded by a ring-shaped
5 trench. A first conductive layer is formed in the ring-
shaped trench of the first dielectric layer. A passivation
layer is formed overlying the first dielectric layer and has
an opening, in which the opening corresponds to the bonding
region and the sensing region and exposes the dielectric
10 island and a part of the first conductive layer. A second
conductive layer covers the opening of the passivation layer
and is electrically connected to the first conductive layer.